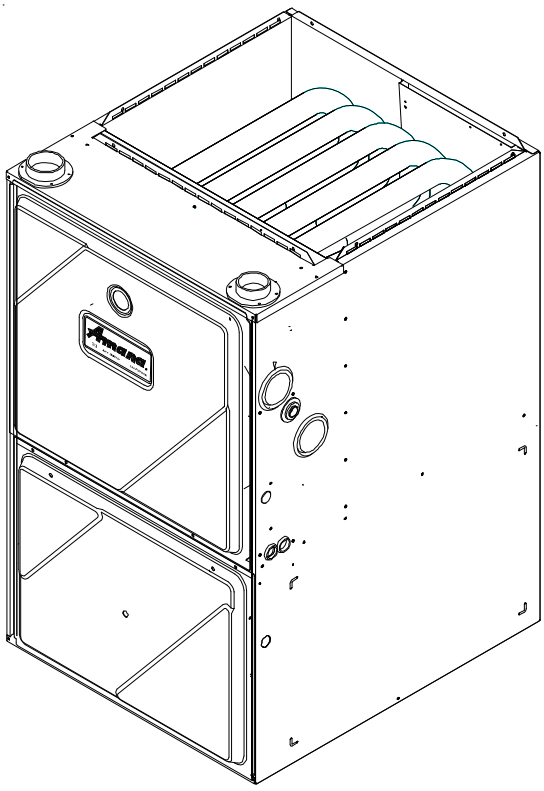
Heating & Air Conditioning
Amana
LASTS AND LASTS AND LASTS.™

TECHNICAL MANUAL

AMH95
40" 95% Gas Furnace

- Refer to Service Manual RS6610004 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Model numbers listed on page 3.



C ETL LISTED US

This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

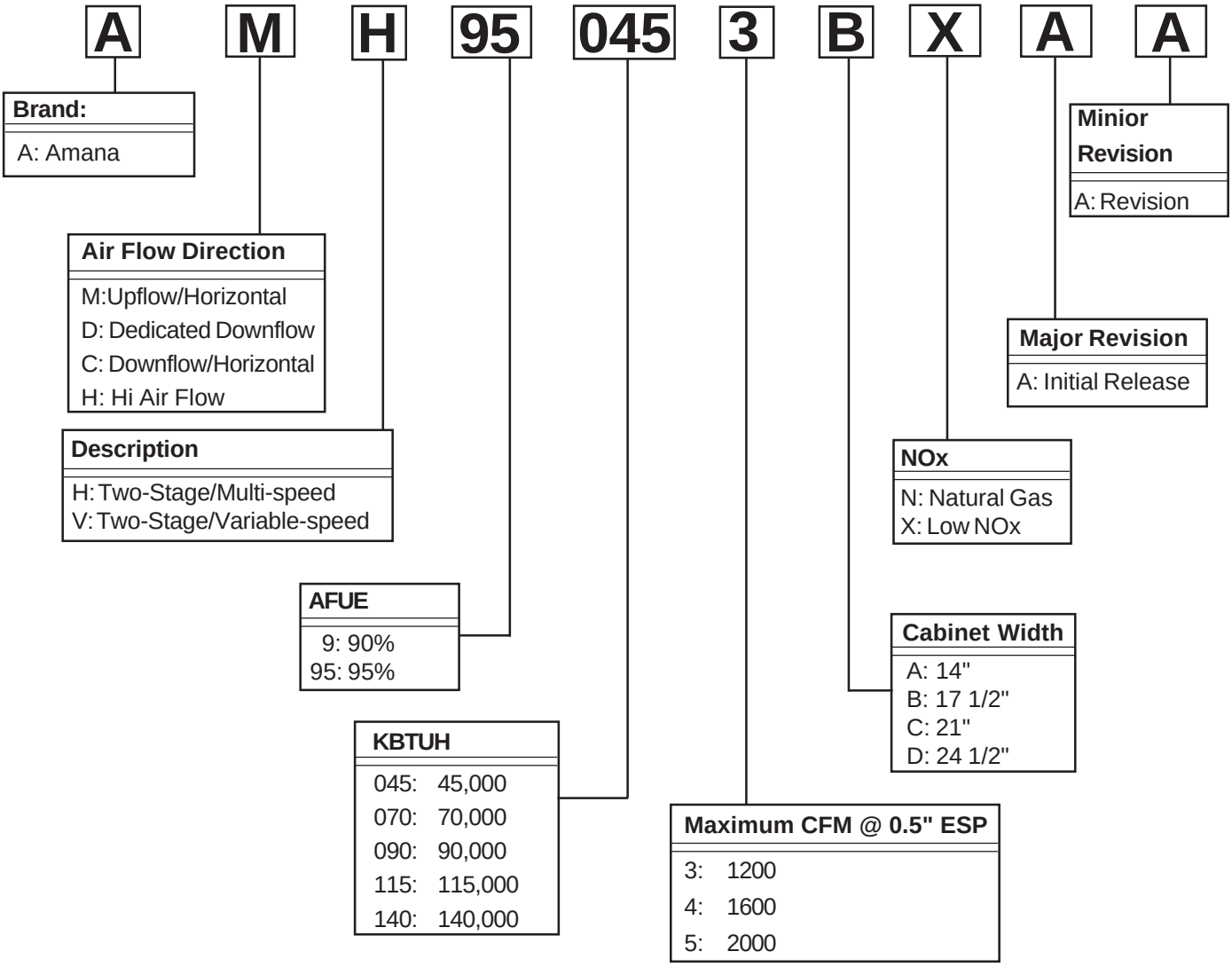
RT6612016 Rev. 5
April 2010

Amana is a trademark of Maytag Corporation and is used under license to Goodman Company, L.P.
All rights reserved.

Copyright © 2006-2007, 2009-2010 Goodman Company, L.P.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

WARNING

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

WARNING

Installation and repair of this unit should be performed ONLY by individuals meeting the requirements of an "entry level technician", at a minimum, as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

AMH950453BXA*
AMH950703BXA*
AMH950704CXA*
AMH950904CXA*
AMH950905DXA*
AMH951155DXA*

⚠ WARNING **The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.**

⚠ WARNING **Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.**

⚠ WARNING **To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.**

PRODUCT DESIGN

General Operation

The AMH95 furnaces are equipped with an electronic ignition device used to light the burners and an induced draft blower to exhaust combustion products.

An interlock switch prevents furnace operation if the blower door is not in place. Keep the blower access door in place except for inspection and maintenance.

This furnace is also equipped with a self-diagnosing electronic control module. In the event a furnace component is not operating properly, the control module LED will flash on and off in a factory-programmed sequence, depending on the problem encountered. This light can be viewed through the observation window in the blower access door. Refer to the *Troubleshooting Chart* for further explanation of the LED codes and *Abnormal Operation - Integrated Ignition Control* section in the Service Instructions for an explanation of the possible problem.

The rated heating capacity of the furnace should be greater than or equal to the total heat loss of the area to be heated. The total heat loss should be calculated by an approved method or in accordance with “ASHRAE Guide” or “Manual J-Load Calculations” published by the Air Conditioning Contractors of America.

*Obtain from: American National Standards Institute 1430 Broadway New York, NY 10018

Location Considerations

- The furnace should be as centralized as is practical with respect to the air distribution system.
- Do not install the furnace directly on carpeting, tile, or combustible material other than wood flooring.
- When suspending the furnace from rafters or joists, use 3/8" threaded rod and 2” x 2” x 3/8” angle as shown in the Installation and Service Instructions. The length of the rod will depend on the application and clearance necessary.
- When installed in a residential garage, the furnace must be positioned so the burners and ignition source are located not less than 18 inches (457 mm) above the floor and protected from physical damage by vehicles.

Notes:

1. Installer must supply one or two PVC pipes: one for combustion air (optional) and one for the flue outlet (required). Vent pipe must be either 2” or 3” in diameter, depending upon furnace input, number of elbows, length of run and installation (1 or 2 pipes). The optional Combustion Air Pipe is dependent on installation/code requirements and must be 2” or 3” diameter PVC.
2. Line voltage wiring can enter through the right or left side of the furnace. Low voltage wiring can enter through the right or left side of furnace.
3. Conversion kits for high altitude natural or propane gas operation are available. See High Altitude Derate chart for details.
4. Installer must supply the following gas line fittings, depending on which entrance is used:

   Left -- Two 90º Elbows, one close nipple, straight pipe.

   Right -- Straight pipe to reach gas valve.

Accessibility Clearances (Minimum)

MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS (INCHES)						
POSITION*	**FRONT**	**SIDES**	**REAR**	**TOP**	**FLUE**	**FLOOR**
Upflow	3	0	0	1	0	C
Horizontal	3	6	0	6	0	C

*= All positioning is determined as installed unit is viewed from the front.

C= If placed on combustible floor, floor MUST be wood only.

NC= For instalaltion on non-combustible floors only. A non-combustible subbase must be used for installations on combustible flooring.

24" at front is required for servicing or cleaning.

Note: In all cases accessibility clearance shall take precedence over clearances from the enclosure where accessibility clearances are greater. All dimensions are given in inches.

High Altitude Derate

When this furnace is installed at high altitude, the appropriate High Altitude orifice kit must be installed. This is required due to the natural reduction in the density of both the gas fuel and combustion air as altitude increases. The kit will provide the proper design certified input rate within the specified altitude range.

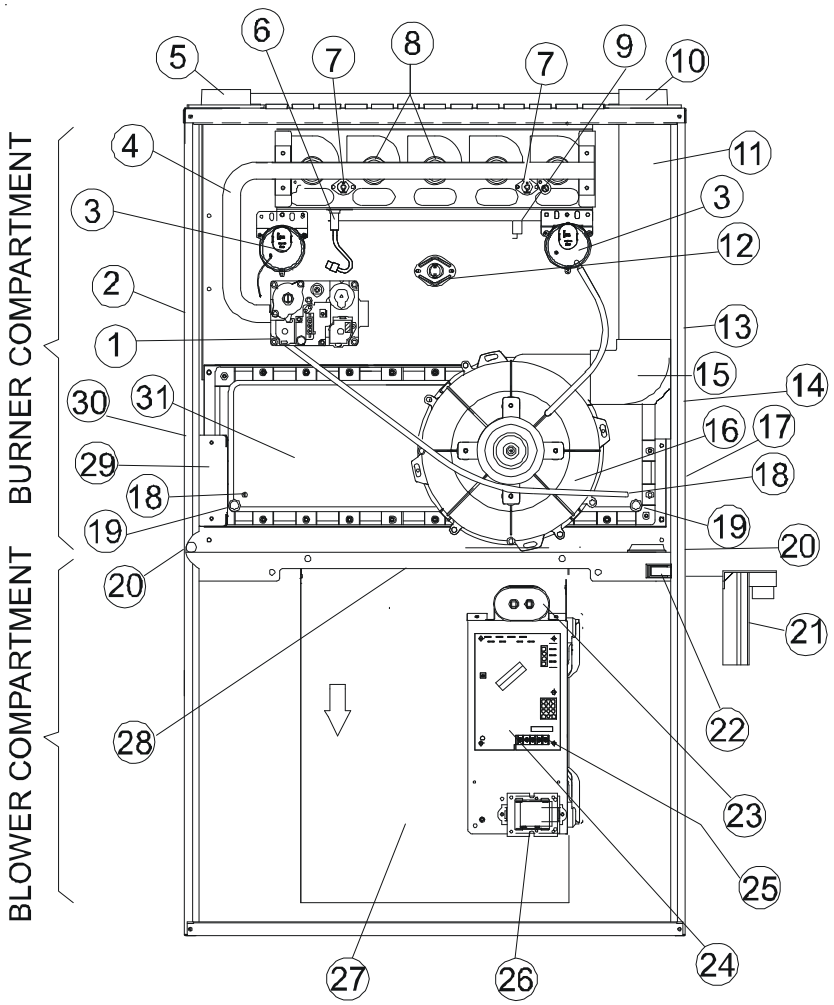
PROPANE AND HIGH ALTITUDE KITS				
MODEL NUMBER	**0 to 7,000 ft.**	**7,001 to 9,000 ft.**	**9,001 to 11,000 ft.**	**7,001 to 11,000 ft.**
AMH95***XA***	**LPM-05**[1] **LPM-06**[2] Propane Conversion Kit (#55 Orifices)	**HANG11** High Altitude Natural Gas Kit (#44 Orifices)	**HANG12** High Altitude Natural Gas Kit (#45 Orifices)	**HALP 10** High Altitude LP Gas Kit (#56 Orifices)

[1] LPM-05* supports White-Rodgers 2-stage valves only

[2] LPM-06* supports Honeywell and White-Rodgers 2-stage valves

High altitude kits are purchased according to the installation altitude and usage of either natural or propane gas. Refer to the chart above for a tabular listing of appropriate altitude ranges and corresponding manufacturer’s high altitude Natural Gas and Propane Gas kits. For a tabular listing of appropriate altitude ranges and corresponding manufacturer's High Altitude Pressure Switch kits, refer to either the *Pressure Switch Trip Points & Usage Chart* in this manual or the *Accessory Charts* in Service Instructions.

COMPONENT IDENTIFICATION

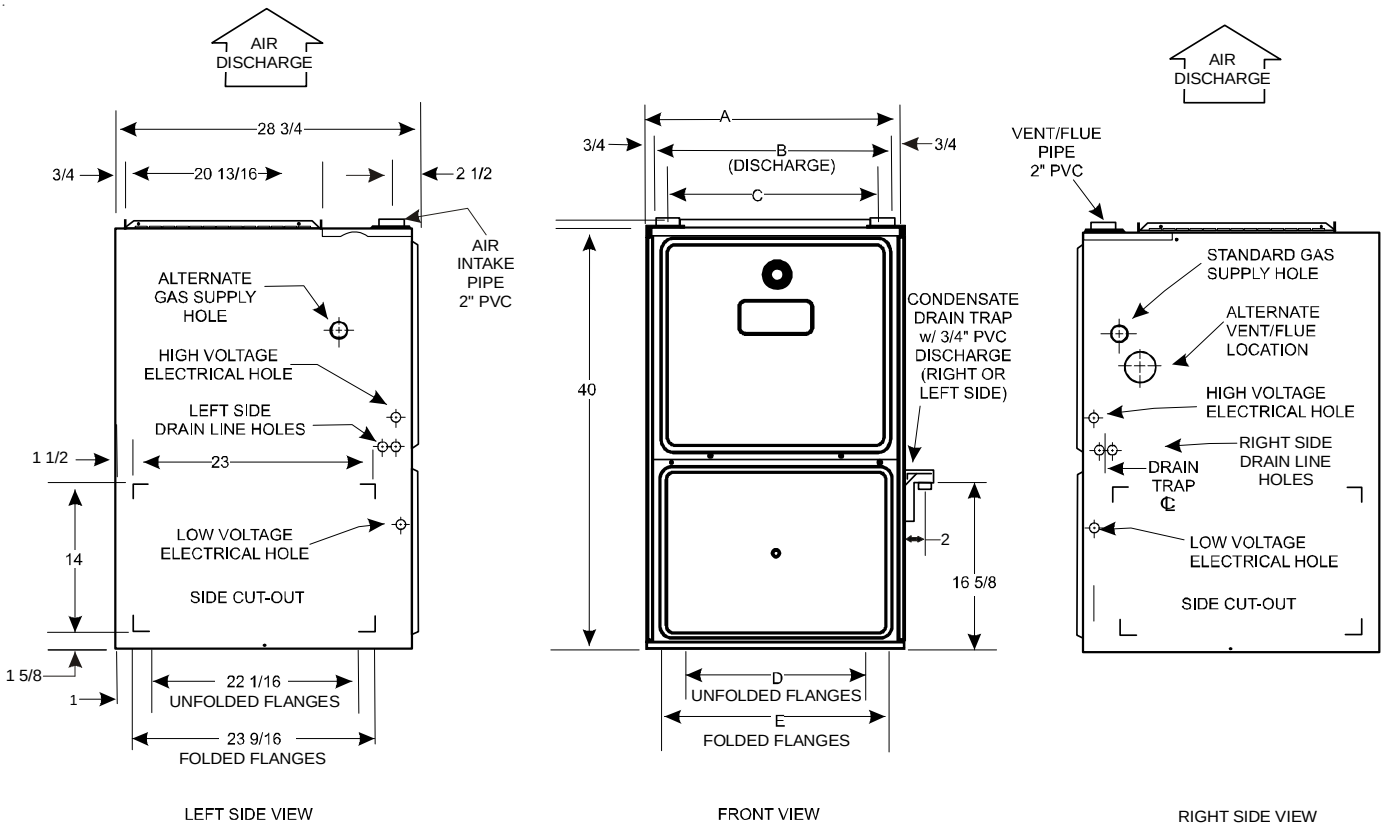


Upflow/Horizontal

1 Gas Valve
2 Gas Line Entrance (Alternate)
3 Pressure Switch
4 Gas Manifold
5 Combustion Air Intake Connection / “Coupling”
6 Hot Surface Igniter
7 Rollout Limit
8 Burners
9 Flame Sensor
10 Flue Pipe Connection / “Coupling”
11 Flue Pipe (Internal)
12 Primary Limit
13 Gas Line Entrance
14 Flue Pipe Connection (Alternate)
15 Rubber Elbow
16 Induced Draft Blower
17 Electrical Connection Inlets (Alternate)
18 Coil Front Cover Pressure Tap
19 Coil Front Cover Drain Port
20 Drain Line Penetrations
21 Drain Trap
22 Blower Door Interlock Switch
23 Capacitor
24 Integrated Control Module (with fuse and diagnostic LED)
25 24-Volt Thermostat Connections
26 Transformer (40 VA)
27 Circulator Blower
28 Auxiliary Limit
29 Junction Box
30 Electrical Connection Inlets
31 Coil Front Cover

COMPONENT IDENTIFICATION

AMH95*****XA*



Cabinet Size	A	B	C	D	E
AMH950453BXA* AMH950703BXA*	17-1/2	16	12-15/16	12-1/8	13-5/8
AMH950704CXA* AMH950904CXA*	21	19-1/2	15-15/16	16	17-1/2
AMH950905DXA* AMH951155DXA*	24-1/2	23	20-7/16	19-3/8	20-7/8

All dimensions are in inches.

PRODUCT DESIGN

PRESSURE SWITCH TRIP POINTS AND USAGE CHART											
MODEL	NEGATIVE PRESSURE ID BLOWER WITH FLUE NOT FIRING TYPICAL SEA LEVEL DATA(1)	NEGATIVE PRESSURE ID BLOWER WITH FLUE FIRING TYPICAL SEA LEVE DATA(2)	NEGATIVE PRESSURE COIL COVER WITH FLUE NOT FIRING TYPICAL SEA LEVEL DATA(1)	NEGATIVE PRESSURE COIL COVER WITH FLUE FIRING TYPICAL SEA LEVE DATA(2)	PRESSURE SWITCH TRIP POINTS AND USAGE						
					0 to 7,000 ft.				7,001 to 11,000 ft.		
					TRIP POINT COIL COVER PRESSURE SWITCH	COIL COVER PRESSURE SWITCH PART #	TRIP POINT ID BLOWER PRESSURE SWITCH	ID BLOWER PRESSURE SWITCH PART #	TRIP POINT COIL COVER PRESSURE SWITCH	TRIP POINT ID BLOWER PRESSURE SWITCH	HIGH ALTITUDE KIT
AMH950453BXA*	-1.30	-1.10	-0.52	-0.37	-0.37	20197312	-1.10	0130F00000P	TBD	TBD	TBD
AMH950703BXA*	-1.10	-0.95	-0.52	-0.37	-0.37	20197312	-0.95	0130F00002P	TBD	TBD	TBD
AMH950704CXA*	-1.30	-1.10	-0.52	-0.37	-0.37	20197312	-1.10	0130F00000P	TBD	TBD	TBD
AMH950904CXA*	-1.40	-1.20	-0.75	-0.60	-0.60	20197310	-1.20	0130F00001P	TBD	TBD	TBD
AMH950905DXA*	-1.30	-1.10	-0.52	-0.37	-0.37	20197312	-1.10	0130F00000P	TBD	TBD	TBD
AMH951155DXA*	-1.30	-1.10	-0.75	-0.60	-0.60	20197310	-1.10	0130F00000P	TBD	TBD	TBD

(1) Data given is least negative pressure required for pressure switch to close.
(2) Data given is the least negative pressure required for pressure switch to remain closed.

T.O.D. PRIMARY LIMIT		
Part Number	**20162903**	**20162904**
Open Setting (°F)	160	150
AMH950453BXA*		1
AMH950703BXA*	1	
AMH950704CXA*	1	
AMH950904CXA*		1
AMH950905DXA*	1	
AMH951155DXA*	1	

PRODUCT DESIGN

ROLLOUT LIMIT SWITCHES	
Part Number	**10123514 or 10123533**
Open Setting (°F)	200
AMH950453BXA*	1
AMH950703BXA*	2
AMH950704CXA*	2
AMH950904CXA*	2
AMH950905DXA*	2
AMH951155DXA*	2

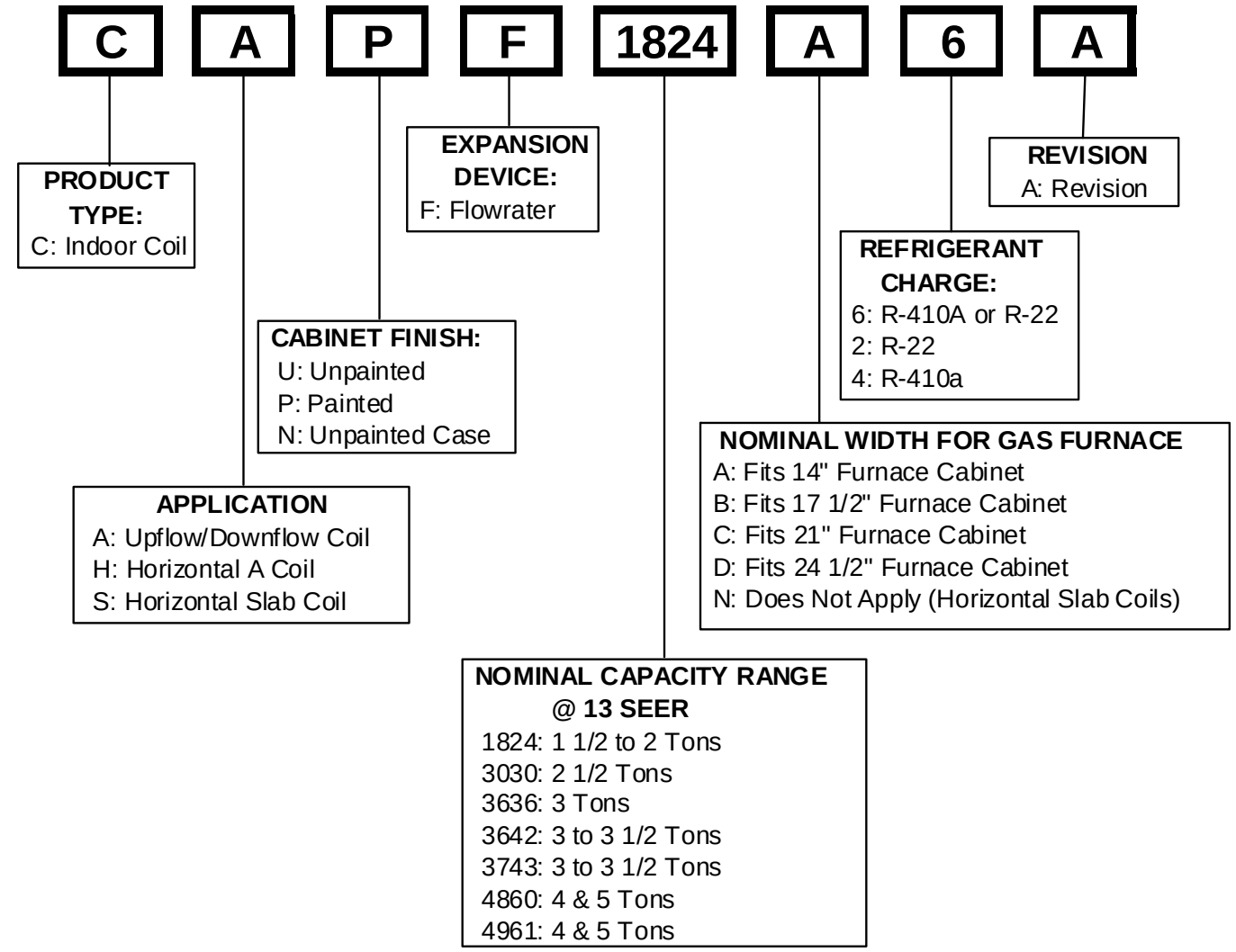
AUXILIARY LIMIT SWITCHES		
Part Number	**10123535**	**10123519**
Open Setting (°F)	150	160
AMH950453BXA*	1	
AMH950703BXA*	1	
AMH950704CXA*	1	
AMH950904CXA*	1	
AMH950905DXA*	1	
AMH951155DXA*		1

PRODUCT DESIGN

Coil Matches:

A large array of Amana® brand coils are available for use with the AMH95 furnaces, in either upflow or horizontal applications. These coils are available in both cased and uncased models (with the option of a field installed TXV expansion device). These 95%+ furnaces match up with the existing Amana® brand coils as shown in the chart below.

Coil Matches (for Goodman® units using R22 and R-410A):



- All CAPF coils in B, C, & D widths have insulated blank off plates for use with one size smaller furnaces.
- All CAPF coils have a CAUF equivalent.
- All CHPF coils in B, C & D heights have an insulated Z bracket for use with one size smaller furnace.
- All proper coil combinations are subject to being ARI rated with a matched outdoor unit.

PRODUCT DESIGN

Thermostats:

NOTE: *Complete lineup of thermostats can be found in the Thermostat Specification Sheets.*

Filters:

Filters are required with this furnace and must be provided by the installer. The filters used must comply with UL900 or CAN/ULCS111 standards. Installing this furnace without filters will void the unit warranty.

Upflow Filters

This furnace has provisions for the installation of return air filters at the side and/or bottom return. The furnace will accommodate the following filter sizes depending on cabinet size:

SIDE RETURN		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in^2)
All	16 x 25 x 1	400

BOTTOM RETURN (1)		
Cabinet Width (in.)	Nominal Filter Size (in.)	Approx. Flow Area (in^2)
17-1/2	14 x 25 x 1	350
21	16 x 25 x 1	400
24-1/2	20 x 25 x 1	500

(1) Flanges on bottom return must be unfolded

Refer to Minimum Filter Area tables to determine filter area requirement. **NOTE:** Filters can also be installed elsewhere in the duct system such as a central return.

		COOLING AIRFLOW REQUIREMENT (CFM)						
		600	800	1000	1200	1400	1600	2000
Input_Airflow	0453BXA*	388*	388*	480	576	---	---	---
	0703BXA*	---	647*	647*	647*	672	---	---
	0704CXA*	---	---	583*	583*	672	768	---
	0904CXA*	---	---	863*	863*	863*	863*	---
	0905DXA*	---	---	---	777*	777*	777*	960
	1155DXA*	---	---	---	971*	971*	971*	971*

*Minimum filter area dictated by heating airflow requirement.

Disposable Minimum Filter Area (in^2)

[*Based on a 300 ft/min filter face velocity]*

		COOLING AIRFLOW REQUIREMENT (CFM)						
		600	800	1000	1200	1400	1600	2000
Input_Airflow	0453BXA*	194*	194*	240	288	---	---	---
	0703BXA*	---	324*	324*	324*	336	---	---
	0704CXA*	---	---	291*	291*	336	384	---
	0904CXA*	---	---	432*	432*	432*	432*	---
	0905DXA*	---	---	---	388*	388*	388*	480
	1155DXA*	---	---	---	486*	486*	486*	486*

*Minimum filter area dictated by heating airflow requirement.

Permanent Minimum Filter Area (in^2)

[Based on 600 ft/min filter face velocity]

FURNACE SPECIFICATIONS AMH95

MODEL	AMH95 0453BXA*	AMH95 0703BXA*	AMH95 0704CXA*	AMH95 0904CXA*	AMH95 0905DXA*	AMH95 1155DXA*
Btuh						
Input (US)	46,000	69,000	69,000	92,000	92,000	115,000
Output (US)	44,400	66,400	66,900	89,000	88,400	110,500
Input (CAN)	46,000	69,000	69,000	92,000	92,000	115,000
Output (CAN)	44,400	66,400	66,900	89,000	89,400	110,500
A.F.U.E.	95.0%	95.0%	95.0%	95.0%	95.0%	95.0%
Rated External Static (" w.c.)	.20 - .50	.20 - .50	.20 - .50	.20 - .50	.20 - .50	.20 - .50
Temperature Rise (°F)	35 - 65	30 - 60	35 - 65	30 - 60	35 - 65	35 - 65
ID Blower Pressure Switch Trip Point (" w.c.)	-1.10	-0.95	-1.10	-1.20	-1.10	-1.10
Front Cover Pressure Switch Trip Point (" w.c.)	-0.37	-0.37	-0.37	-0.60	-0.37	-0.60
Blower Wheel (D" x W")	10 x 8	10 x 8	10 x 10	10 x 10	11 x 10	11 x 10
Blower Horsepower	1/3	1/3	1/2	1/2	3/4	3/4
Blower Speeds	4	4	4	4	4	4
Max CFM @ 0.5 E.S.P.	1200	1200	1600	1600	2000	2000
Power Supply	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1	115-60-1
Minimum Circuit Ampacity (MCA)[1]	9.4	9.4	13.8	13.8	13.2	13.2
Maximum Overcurrent Device[2]	15.0	15.0	15.0	15.0	15.0	15.0
Transformer (VA)	40	40	40	40	40	40
Primary Limit Setting (°F)	150	160	160	150	160	160
Auxiliary Limit Setting (°F)	150	150	150	150	150	160
Rollout Limit Setting (°F)	200	200	200	200	200	200
Fan Delay On Heating	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.	30 secs.
Off Heating [3]	150 secs.	150 secs.	150 secs.	150 secs.	150 secs.	150 secs.
Fan Delay On Cooling	6 sec.	6 sec.	6 sec.	6 sec.	6 sec.	6 sec.
Off Cooling	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.	45 secs.
Gas Supply Pressure (Natural/Propane) ("w.c.)	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11	7 / 11
Manifold Pressure (Natural/Propane) ("w.c.)	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10	3.5 / 10
Orifice Size (Natural/Propane)	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55
Number of Burners	2	3	3	4	4	5
Vent Connector Diameter (inches)[4]	2	2	2	2	2	2
Combustion Air Connector Diameter (inches)[5]	2	2	2	2	2	2
Shipping Weight (lbs.)	132	135	136	158	172	175

[1] Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.
[2] Maximum Overcurrent Protection Device: May use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.
[3] Off Heating - this fan delay timing is adjustable (100 and 150 seconds). Furnaces are shipped with 150 second off delay.
[4] See Installation Instructions for appropriate vent diameter, length and number of elbows.
[5] See Installation Instructions for appropriate combustion air pipe diameter, length and number of elbows.

NOTE: This data is provided as a guide, it is important to electrically connect the unit and properly size fuses/circuit breakers and wires in accordance with all national and/or local electrical codes. Use copper wire only.

1. These furnaces are manufactured for natural gas operation. Optional kits are available for conversion to propane operation.
2. For elevations above 2000 feet the rating should be reduced by 4% for each 1000 feet above sea level. The furnace must not be derated, orifice changes should only be made if necessary for altitude.
3. The total heat loss from the structure as expressed in TOTAL BTU/HR must be calculated by the manufacturers method or in accordance with the "A.S.H.R.A.E. GUIDE" or "MANUAL J-LOAD CALCULATIONS" published by the AIR CONDITIONING CONTRACTORS OF AMERICA. The total heat loss calculated should be equal to or less than the heating capacity. Output based on D.O.E. test procedures.
4. Minimum Circuit Ampacity calculated as: (1.25 x Circulator Blower Amps) + I.D. Blower Amps.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

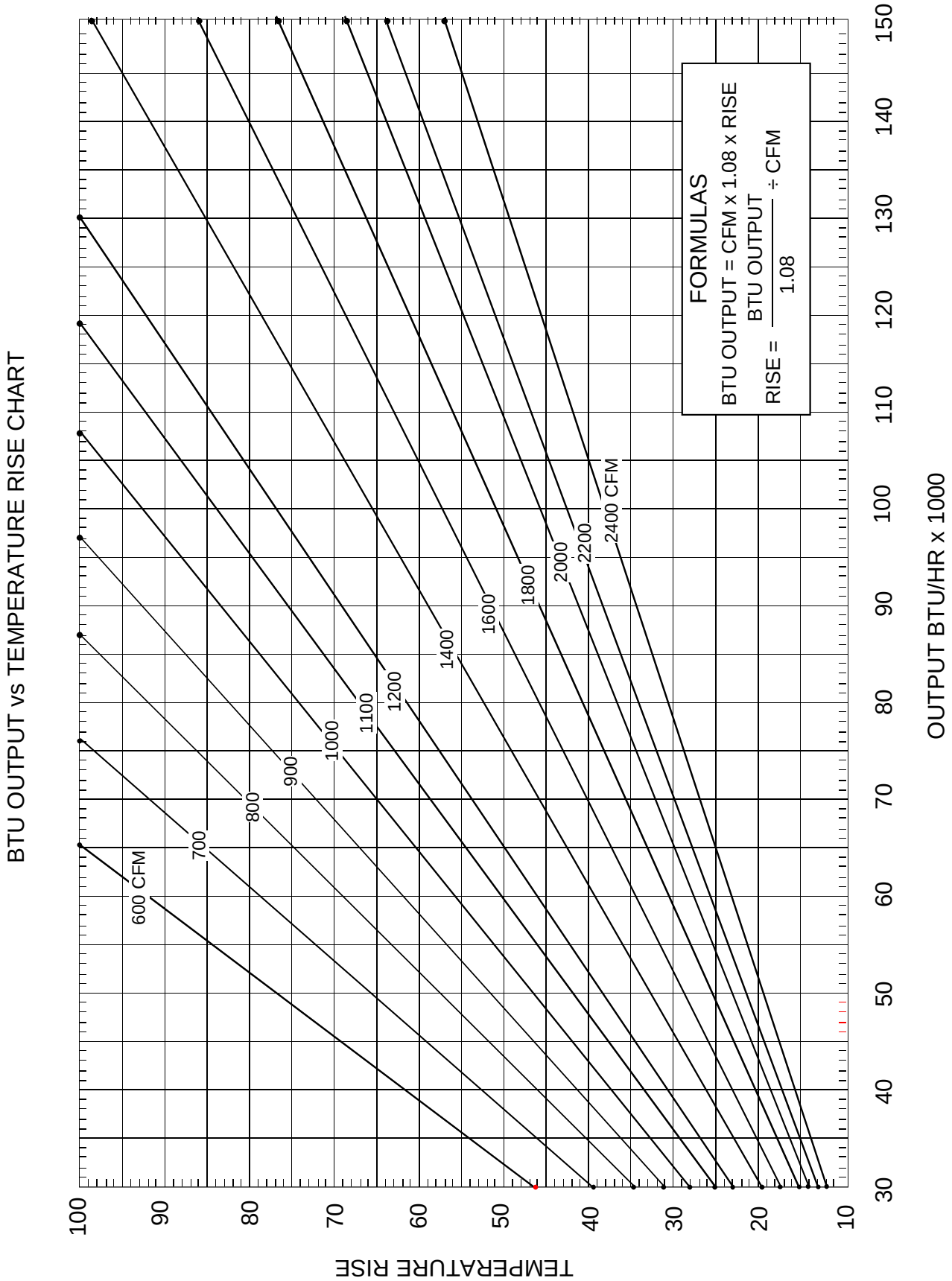
BLOWER PERFORMANCE SPECIFICATIONS

BLOWER PERFORMANCE
(CFM & Temperature Rise vs. External Static Pressure)

Model (Heating Speed As Shipped)	Motor Speed	Tons AC at 0.5" ESP	EXTERNAL STATIC PRESSURE (Inches Water Column)												
			0.1		0.2		0.3		0.4		0.5		0.6	0.7	0.8
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	CFM	CFM
	HIGH	3.0	1352	29	1318	30	1260	31	1202	33	1128	35	1044	955	853
AMH950453BXA*	MED	2.5	1214	32	1172	34	1123	35	1064	37	1012	39	938	859	741
(MED-HI)	MED-LO	2.0	997	40	994	40	960	41	923	43	884	45	817	741	611
	LOW	1.5	757	52	753	52	734	54	704	56	674	59	620	524	438
	HIGH	3.0	1449	41	1409	42	1326	45	1273	47	1201	49	1194	1136	1018
AMH950703BXA*	MED	2.5	1192	50	1172	51	1141	52	1094	54	1046	57	973	904	793
(MED-HI)	MED-LO	2.0	981	61	962	62	943	63	917	65	888	67	830	764	665
	LOW	1.5	750	79	730	81	714	83	692	86	657	90	620	570	502
	HIGH	4.0	2069	29	1965	30	1871	32	1756	34	1661	36	1549	1415	1275
AMH950704CXA*	MED	3.5	1752	34	1724	34	1667	36	1603	37	1488	40	1402	1290	1082
(MED-HI)	MED-LO	3.0	1437	41	1437	41	1417	42	1369	43	1320	45	1256	1140	984
	LOW	2.5	1184	50	1177	50	1161	51	1132	52	1095	54	1047	928	837
	HIGH	4.0	1970	40	1874	342	1757	45	1667	48	1566	51	1431	1334	1182
AMH950904CXA*	MED	3.5	1713	46	1650	48	1572	50	1510	52	1418	56	1313	1211	1079
(MED-HI)	MED-LO	3.0	1439	55	1412	56	1370	58	1327	60	1260	63	1166	1078	956
	LOW	2.5	1183	67	1155	69	1122	74	1108	72	1062	75	1011	931	816
	HIGH	5.0	2147	37	2114	37	2057	39	2030	39	1978	40	1889	1784	1713
AMH950905DXA*	MED	4.0	1675	47	1686	47	1640	48	1623	49	1557	51	1501	1455	1360
(MED-HI)	MED-LO	3.5	1489	53	1470	54	1436	55	1409	56	1361	58	1318	1243	1130
	LOW	3.0	1307	61	1265	63	1234	64	1203	66	1168	68	1096	1053	991
	HIGH	5.0	2134	46	2103	47	2029	48	1941	51	1906	51	1818	1733	1625
AMH951155DXA*	MED	4.0	1678	58	1643	60	1643	60	1577	62	1527	64	1489	1423	1339
(MED-HI)	MED-LO	3.5	1453	68	1440	68	1426	69	1363	72	1349	73	1314	1253	1205
	LOW	3.0	1259	78	1239	79	1220	80	1181	83	1159	85	1118	1082	1015

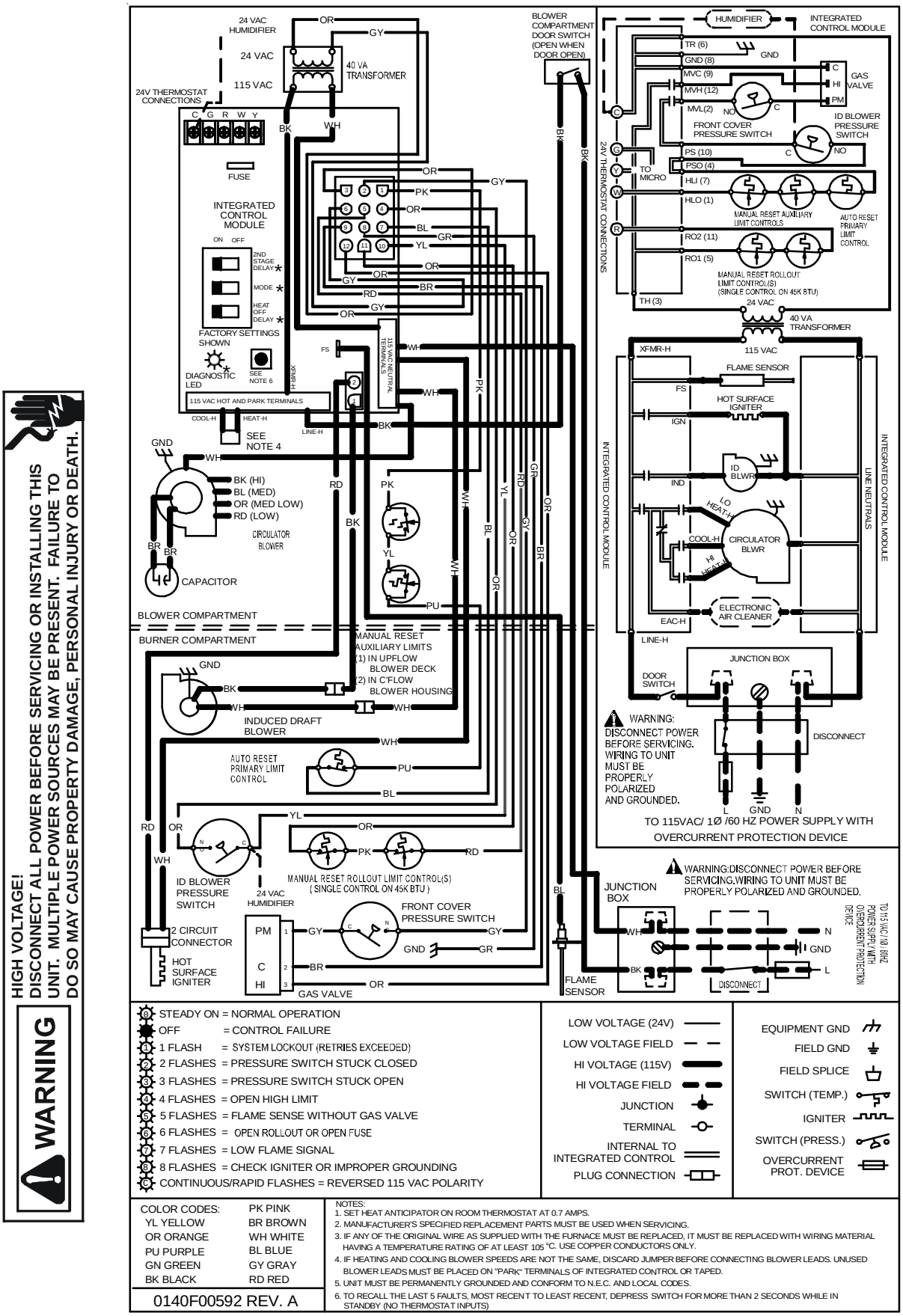
1. CFM in chart is without filters(s). Filters do not ship with this furnace, but must be provided by the installer. If the furnace requires two return filters, this chart assumes both filters are installed.
2. All furnaces ship as high speed cooling and medium-speed heating. Installer must adjust blower cooling & heating speed as needed.
3. For most jobs, about 400 CFM per ton when cooling is desirable.
4. INSTALLATION IS TO BE ADJUSTED TO OBTAIN TEMPERATURE RISE WITHIN THE RANGE SPECIFIED ON THE RATING PLATE.
5. The chart is for information only. For satisfactory operation, external static pressure must not exceed value shown on rating plate. The shaded area indicates ranges in excess of maximum external static pressure allowed when heating. The data for 0.6" w.c. to 0.8" w.c. is shown for air conditioning purposes only.
6. The above chart is for U.S. furnaces installed at 0-2000 feet. At higher altitudes, a properly de-rated unit will have approximately the same temperature rise at a particular CFM, while the ESP at that CFM will be lower.

BLOWER PERFORMANCE SPECIFICATIONS



WIRING DIAGRAMS

AMH95[0453,0704,0905]*XAB
AMH95[0703,0904,1155]*XAC



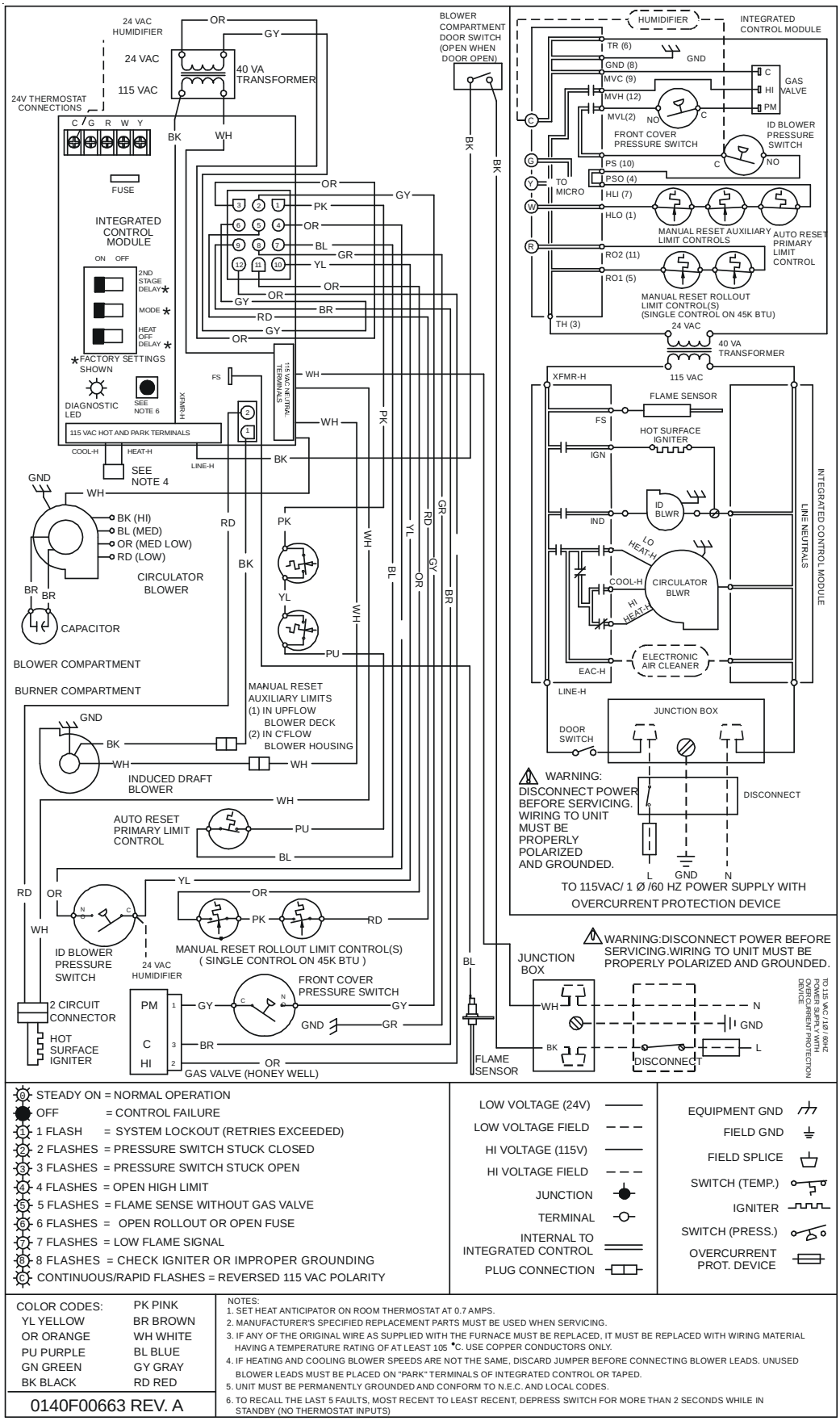
WARNING

HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

AMH95[0453,0704,0905]*XAC
AMH95[0703,0904,1155]*XAD



HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

WARNING

- STEADY ON = NORMAL OPERATION
- OFF = CONTROL FAILURE
- 1 FLASH = SYSTEM LOCKOUT (RETRIES EXCEEDED)
- 2 FLASHES = PRESSURE SWITCH STUCK CLOSED
- 3 FLASHES = PRESSURE SWITCH STUCK OPEN
- 4 FLASHES = OPEN HIGH LIMIT
- 5 FLASHES = FLAME SENSE WITHOUT GAS VALVE
- 6 FLASHES = OPEN ROLLOUT OR OPEN FUSE
- 7 FLASHES = LOW FLAME SIGNAL
- 8 FLASHES = CHECK IGNITER OR IMPROPER GROUNDING
- CONTINUOUS/RAPID FLASHES = REVERSED 115 VAC POLARITY

- LOW VOLTAGE (24V)
- LOW VOLTAGE FIELD
- HI VOLTAGE (115V)
- HI VOLTAGE FIELD
- JUNCTION
- TERMINAL
- INTERNAL TO INTEGRATED CONTROL
- PLUG CONNECTION

- EQUIPMENT GND
- FIELD GND
- FIELD SPLICE
- SWITCH (TEMP.)
- IGNITER
- SWITCH (PRESS.)
- OVERCURRENT PROT. DEVICE

COLOR CODES:	
YL YELLOW	PK PINK
OR ORANGE	BR BROWN
PU PURPLE	WH WHITE
GN GREEN	BL BLUE
BK BLACK	GY GRAY
	RD RED

0140F00663 REV. A

NOTES:
1. SET HEAT ANTICIPATOR ON ROOM THERMOSTAT AT 0.7 AMPS.
2. MANUFACTURER'S SPECIFIED REPLACEMENT PARTS MUST BE USED WHEN SERVICING.
3. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE FURNACE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105 °C. USE COPPER CONDUCTORS ONLY.
4. IF HEATING AND COOLING BLOWER SPEEDS ARE NOT THE SAME, DISCARD JUMPER BEFORE CONNECTING BLOWER LEADS. UNUSED BLOWER LEADS MUST BE PLACED ON "PARK" TERMINALS OF INTEGRATED CONTROL OR TAPED.
5. UNIT MUST BE PERMANENTLY GROUNDED AND CONFORM TO N.E.C. AND LOCAL CODES.
6. TO RECALL THE LAST 5 FAULTS, MOST RECENT TO LEAST RECENT, DEPRESS SWITCH FOR MORE THAN 2 SECONDS WHILE IN STANDBY (NO THERMOSTAT INPUTS)

Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.